Attorney Docket No. P67341US0 Serial No.: 09/926,589

Amendments to the claims:

This listing of claims will replace all prior versions, and listings, of claims in the application: Listing of claims:

Claims 1-16 (cancelled)

(new) Contrast agent for medical imaging, characterized in that it comprises a racemic 17. compound of formula III

in which R is a phenyl group or a linear, branched or cyclic (C1-C8) alkyl group which are substituted or interrupted by one or more groups selected from the group consisting of phenyl, alkyl, oxy, amino and amido groups, which may or may not be substituted by alkyl,

it is being possible for the phenyl groups also to be substituted by one or more groups selected from the group selected from OH, Br, Cl, L, (C_1-C_8) . llkyl, (C_1-C_8) alkyleneoxy, NO2, NRxRy, NRxCORy, CONRxRy and COORx, Rx and Ry being (C_i-C_i) alkyl or H, and it being possible for the linear or branched or cyclic alkyl groups to be hydroxylated,

and the salts of this acid with a physiologically acceptable inorganic or organic base. -

(new) Contrast agent according to Claim 17, for which R is a gr up of formula 18.

Attorney Docket No. P67341US0 Serial No. 09/926,589

in which

X is Br or L

 R_1 is H_1 (C_1 - C_3) alkyl, or (C_2 - C_8) mono- or polyhydroxyalkyl,

when R_1 is (C_1-C_3) alkyl or (C_2-C_8) mono- or polyhydroxyalkyl, R_2 is (C_2-C_8) mono- or polyhydroxyalkyl, and

when R₁ is H, R₂ is (C₂-C₈) mono- or polyhydroxyalkyl or a group of formula A

$$X$$
 $CO-NR_1'R_2'$ $-CH_2-CO-NH$ X $CO-NR_1'R_2'$

X being as defined above and R'_1 and R'_2 taking any one of the mearing given for R_1 and R_2 , with the exception of A, it being understood that -CO-NR₁R₂ or -CO-NR'₁R'₂ comprise at least two hydroxyl groups, and its salts with a physiologically acceptable inorganic or organic base.

19. (new) Contrast agent according to Claim 17, in which R is a group of formula

$$Z = \begin{bmatrix} Z \\ Z \end{bmatrix} \begin{bmatrix} Z \\ R_1 \\ R_2 \end{bmatrix} \begin{bmatrix} R_2 \\ R_3 \end{bmatrix}$$

in which a is 1 or 2,

Z is an optional moiety selected from the group consisting of CH₁, CH₂CONH and (CH₂)₂NHCO,

Z' is an optional moiety selected from the group consisting of O, S, NQ, CH₂, CO, CO-NQ, NQ-CO, NQ-CO-NQ and CO-NQ-CH₂-CONQ,

Attorney Docket No. P67341US0 Serial No.: 09/926,589

Z" is selected form the group consisting of CO-NQ, NQ-CO, CO-NQ-CH₂-CO-NQ and NQ-CO-CH₂-NQ-CO,

with Q being H or an optionally hydroxylated (C1-C4) alkyl group,

 R_1 , R_2 , R_3 , R_4 and R_5 , independently of one another, are selected from the group consisting of H, Br, Cl, I, CO-NQ₁NQ₂ or N(Q₁)-CO-Q₂, and Q₁ and Q₂, which are identical or different, are selected from the group consisting of optionally hydroxylated (C_2 - C_6) alkyl groups optionally interrupted by an oxygen atom, so that Q₁ and Q₂ together comprise from 4 to 10 OH groups,

it being understood that at least 1 and at most 2 R_1 , R_2 , R_3 , R_4 and R_5 groups are amide groups.

20. (new) Contrast agent according to Claim 19, in which R is a group of formula

- 21. (new) Process for the preparation of the racemic compound of claim 17 which consists:
 - in keeping an aqueous solution of the mixture of the stereoisomers of the gadolinium complex of 1, 4, 7, 10-tetraazacyclododecane-1,4,7,10-tetra (2-glutaric acid), with a pH of between 2 and 4.5, at a temperature of greater than 70 °C for a few hours to a few days, so as to obtain the racemic mixture of octaacids of formula:

Attorney Docket No. P67341US0 Serial No. 09/926,589

- in reacting this mixture with the same amine RNH₂, with an agent which activates the acid functional group.
- 22. (new) Process according to claim 21, in which the solution of complexed octaacid is maintained at its reflux temperature for 35 to 45 hours at pH 3.
- 23. (new) Racemic compound of claim 17, for which R is a group of formula

$$Z = \begin{bmatrix} Z \\ Z \end{bmatrix} \begin{bmatrix} R_1 \\ R_2 \end{bmatrix} \begin{bmatrix} R_2 \\ R_4 \end{bmatrix} \begin{bmatrix} R_3 \\ R_4 \end{bmatrix}$$

in which a is 1 or 2,

Z is an optional moiety selected from the group consisting of CH₂, CH₂CONH and (CH₂)₂NHCO,

Z' is an optional moiety selected from the group consisting of O, S, NQ, CH₂,CO, CO-NQ, NQ-CO, NQ-CO-NQ and CO-NQ-CH₂-CONQ,

Z" is selected from the group consisting of a bond CO-NQ, NQ-CO, CO-NQ, CH₂-CO-NQ and NQ-CO-CH₂-NQ-CO, with Q being H or an optionally hydroxylated (C_1 - C_4) alkŷl group,

Attorney Docket No. P67341US0 Serial No. 09/926,589

 R_1 , R_2 , R_3 , R_4 and R_5 , independently of one another, are selected from the group consisting of H, Br, Cl, I, CO-NQ₁Q₂ and N(Q₁)-CO-Q₂, and Q₁ and Q₂, which are identical or different, are selected from optionally hydroxylated (C₂-C₆) alkyl groups optionally interrupted by an oxygen atom, so that Q₁ and Q₂ together comprise from 4 to 10 OH groups, it being understood that at least 1 and at most 2 R_1 , R_2 , R_3 , R_4 and R_5 groups are amide groups.

24. (new) Racemic compound according to claim 23, in which R is a group of formula